UNIVERSITÀ DEGLI STUDI DI PALERMO

Department: Economics and statistical Sciences

A.Y. 2016/2017

DEGREE COURSE IN STATISTICAL SCIENCE

Characteristics				
Class of Master's Degree (MSc) on Statistics (LM-82)	2 YEARS	PALERMO	FREE ACCESS	2068

Educational objectives

The 2nd cycle degree course in statistics, in accordance with the specific objectives of the class and the indications stemming from the surveys about the placement of graduates in statistics (such as, for instance, the inter-university project STELLA), aims at training professionals with sound grounding in mathematics, probability, statistics and computer data processing, capable of operating in various applicative sectors with autonomy and responsibility and to fit in the labour market as qualified experts capable of producing, processing and analysing diverse information flows.

The educational framework of the course, having as access requirement an adequate grounding in informatics, mathematics, probability and statistics, is characterised by:

- The presence of a group of advanced courses in mathematics, probability and statistics subjects (including Econometrics), ensuring students full command of basic disciplines upon which subsequent theoretical-methodological and applicative statistics will be based;

- The attribution of quite wide credit intervals to the various disciplinary ambits required by regulations in force. This choice will enable the articulation of educational offer in specific interest areas, that differ form each other for 24-30 credits, and namely : one oriented to the economic, corporate and financial ambit, and the other oriented to the social, bio-statistical and environmental ambit;

- The attention to teaching methodologies, making sure that the solid theoretical grounding, based on frontal teaching, is integrated with laboratories, in which case studies and real problems will be discussed and applicative issues will be investigated, in which statistic is the indispensable tool of analysis. In this way, the development t of and adequate critical analysis will be facilitated in students who, starting from sound methodological bases , will be brought to maintain a constant attention to the data formation process - according to definition and measurement concepts - and to a critical use of theories and methods with respect to the type and meaning of available data, turning them into information and therefore usable knowledge for decision making. Laboratory activities will also help to develop communication skills, through the preparation and presentation of written and/or oral reports.

- A particular attention to language skills, with a more advanced approach, and namely: a) a more advanced study of English for Specific Purposes (ESP)with respect to the 1st cycle; b) advances study of spoken language, through the introduction of courses in English

- The possibility of carrying out an internship (stage) within companies or private or public organisations, with a duration equivalent to 6-8 credits;

- Final examination, consisting of an original dissertation about an issue agreed with a Professor; the preparation of the dissertation is awarded 24-30 credits and might be associated to the stage experience.

The educational regulations also provides for the verification of the correspondence between actual study load and the credits corresponding to individual subjects according to the line of the survey carried out within the CampusOne project.

Professional opportunities

Healthcare companies: clinical, epidemiological and managerial areas;

Regional Healthcare departments: evaluation and epidemiology areas

Planning and experimentation units of companies in the biomedical, epidemiological, ecological-environmental areas;

Public and private research centres and institutions.

Final examination features

It consists of an original paper related to one of the class specific disciplinary ambits. The dissertation topic might also be related to the stage experience; dissertations might be both on paper and on multimedia devices. The final examination is

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awarded with 24-30 credits, with the difference corresponding to 0-6 stage credits: i) for dissertations accompanied by stage or by a guided statistic consulting period, credits will be awarded as follows: 24 (final examination) + 6 (stage); ii) for dissertations without stage, but with a higher workload, credits will be awarded as follows: 30 (final examination) + 0(stage); the strong experimental and/or methodological character of the dissertation is the reason why 30 credits are awarded.

Subjects 1 ° year	CFU	Sem.	Val.	SSD	TAF
15511 - SAMPLING PLANS FOR SOCIAL SCIENCES *Giambalvo(PO)*	8	1	V	SECS-S/05	B
16438 - STATISTICAL MODELLING *Lovison(CU)*	10	1	V	SECS-S/01	B
16439 - STOCHASTIC PROCESSES *Adelfio(PO)*	6	1	V	MAT/06	B
15510 - ENGLISH FOR SPECIFIC PURPOSES *Romeo(PA)*	6	1	V		F
02694 - ECONOMETRICS *Lo Cascio(PA)*	6	2	V	SECS-P/05	B
15507 - MATHEMATICS FOR ECONOMICS AND FINANCE *Consiglio(PO)*	10	2	V	SECS-S/06	B
16475 - NON PARAMETRIC STATISTICAL METHODS *Abbruzzo(PA)*	6	2	V	SECS-S/01	B
18178 - STATISTICS FOR ECONOMIC AND BUSINESS ANALYSIS *Cracolici(PO)*	6	2	V	SECS-S/03	B

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Subjects 2 ° year	CFU	Sem.	Val.	SSD	TAF
07553 - PROFESSIONAL PRACTICE	6	1	G		S
05917 - FINAL EXAMINATION	22	3	G		E
Optional subjects	12				C
Optional subjects II	8				C
Optional subjects III	6				C
Free subjects	8				D

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OPTIONAL SUBJECTS

Optional subjects	CFU	Sem.	Val.	SSD	TAF
18168 - MATHEMATICAL MODELS FOR RISK MANAGEMENT *Consiglio(PO)*	6	1	V	SECS-S/06	C
16443 - SOCIAL STATISTICS 3 - INTEGRATED COURSE	12	2	V		
- STATISTICAL METHODS FOR EVALUATION *Enea(PA)*	6	2	V	SECS-S/05	C
- BIOSTATISTICS *Attanasio(PO)*	6	2	V	SECS-S/05	C
18122 - TOPICS IN MACRO AND FINANCIAL ECONOMETRICS *Cipollini(PO)*	6	1	V	SECS-P/05	C
Optional subjects II	**CFU**	**Sem.**	**Val.**	**SSD**	**TAF**
18165 - EXPLORATORY METHODS FOR BIG DATA *Plaia(PO)*	8	1	V	SECS-S/01	C

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OPTIONAL SUBJECTS

Optional subjects II	CFU	Sem.	Val.	SSD	TAF
18166 - HEALTHCARE ECONOMICS AND STATISTICAL EVALUATION	8	2	V		
- HEALTH ECONOMICS *Li Donni(PO)*	4	1	V	SECS-P/03	C
- STATISTICAL EVALUATION METHODS IN HEALTHCARE *Vassallo(PA)*	4	2	V	SECS-S/03	C

Optional subjects III	CFU	Sem.	Val.	SSD	TAF
16442 - CATEGORICAL DATA ANALYSIS *Sciandra(PA)*	6	1	V	SECS-S/01	C
18169 - STATISTICAL METHODS FOR FINANCIAL MARKETS *Vassallo(PA)*	6	1	V	SECS-S/03	C

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